

Example 1

A liquid-liquid extraction process conducted in the Electrochemical Materials Laboratory involved the extraction of nickel from the aqueous phase into an organic phase. A typical set of experimental data from the laboratory is given below.

Ni aqueous phase, w (g/l)	2	2.3	3
Ni organic phase, x (g/l)	8.37	10	12

Assume W is the amount of Ni in the organic phase and w is the amount of Ni in the aqueous phase. The quadratic interpolating function W is given by

$$W = a_1 w^2 + a_2 w + a_3, \quad 2 \leq w \leq 3$$

The solution for the unknowns a_1 , a_2 , and a_3 is given by

$$\begin{bmatrix} 4 & 2 & 1 \\ 6.25 & 2.5 & 1 \\ 9 & 3 & 1 \end{bmatrix} \begin{bmatrix} a_1 \\ a_2 \\ a_3 \end{bmatrix} = \begin{bmatrix} 8.37 \\ 10 \\ 12 \end{bmatrix}$$

Find the values of a_1 , a_2 , and a_3 using the Gauss-Jordan method. Estimate the amount of Ni in the organic phase when 2.2 g/l is in the aqueous phase using quadratic interpolation. Use

$$\begin{bmatrix} a_1 \\ a_2 \\ a_3 \end{bmatrix} = \begin{bmatrix} 1 \\ 1 \\ 1 \end{bmatrix}$$

in the matrix given and correct your iterations.

Solution:-

Restating the equations given

$$a_1 = \frac{8.37 - 2a_2 - a_3}{4}$$

$$a_2 = \frac{10 - 6.25a_1 - a_3}{2.5}$$

$$a_3 = \frac{12 - 9a_1 - 3a_2}{1}$$

Iteration 01

Given the matrix given in the solution for the 01

Numerical Methods With Worked Examples

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